

Western Electric Company, Inc.,
Engineering Dept.,
New York.

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Issue 3 - BT-438520.
March 27, 1920.

**METHOD OF OPERATION
TRUNK CIRCUIT**

Two Way Automatic - Special Outgoing Trunk Test Board - MACHINE SWITCHING SYSTEM.
SOUTHWESTERN BELL TELEPHONE COMPANY,

GENERAL DESCRIPTION

1. This circuit is used as a two way automatic trunk between the outgoing trunk test board or Chief Switchman's Desk, and any other desk having tie line circuit similarly arranged.

DETAILED DESCRIPTION

OPERATION

2. On an incoming call, battery supplied over lead "S" operates the E380 relay under control of the E381 relay. The E380 relay operates lights the trunk lamp. When the key is operated, the E381 relay operates, releasing the E380 relay which in turn extinguishes the trunk lamp.

3. Should the key be restored to normal before the key at the distant end is restored, the E381 relay will remain operated under control of the key at the distant end thus preventing the trunk lamp from relighting and causing a flash recall signal.

4. When the key at the distant end is restored to normal, the E381 relay releases restoring the circuit to normal.

5. On an outgoing call, when the key is operated, the E381 relay operates. The operation of the E381 relay supplies battery through its 500 ohm winding over the "S" lead, to a relay at the distant end thus causing the relay to operate and light the associated trunk lamp.

6. When the key at the distant end is operated, the trunk lamp is extinguished and the circuit functions as described above.

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CIRCUIT REQUIREMENTS

OPERATE

NON-OPERATE

RELEASE

E380 Test .0097 amp.
 Readj. .009 amp.

Test .0009 amp.
Readj. .001 amp.

E381 Test .017 amp.
Wdgs in Readj. .011 amp.
series

Test .0066 amp.
Readj. .007 amp.

ENG. -- CHB-WHL-JO.
11/16/21.

CHK'D. -- FAB.

APPROVED - C. L. SLUYTER, G.M.L.